CLAIMS

1. A programming interface embodied on one or more computer readable media, comprising:

a first group of services related to generating graphical objects;

a second group of services related to formatting content; and

a third group of services related to creating components of the graphical objects.

- 2. A programming interface as recited in claim 1, wherein the first group of services, the second group of services and the third group of services share a common programming model.
- 3. A programming interface as recited in claim 1, wherein the first group of services, the second group of services and the third group of services utilize a common markup language.
- 4. A programming interface as recited in claim 1, wherein the first group of services, the second group of services and the third group of services share a common event system.
- 5. A programming interface as recited in claim 1, wherein the first group of services, the second group of services and the third group of services share a common property definition system.

- 6. A programming interface as recited in claim 1, wherein the first group of services, the second group of services and the third group of services share a common input paradigm.
- 7. A programming interface as recited in claim 1, wherein the first group of services, the second group of services and the third group of services share a common system for nesting elements associated with a particular group of services within elements associated with another group of services.
- 8. A programming interface as recited in claim 1, wherein the first group of services includes a service that determines an appearance of the graphical objects.
- 9. A programming interface as recited in claim 1, wherein the first group of services includes a service that determines a behavior of the graphical objects.
- 10. A programming interface as recited in claim 1, wherein the first group of services includes a service that determines an arrangement of the graphical objects.
- 11. A programming interface as recited in claim 1, wherein the first group of services includes a plurality of nested elements that define the graphical objects.

- 12. A programming interface as recited in claim 1, wherein the graphical objects are comprised of one or more elements defined by vector graphics.
- 13. A programming interface as recited in claim 1, wherein the first group of services can define window properties in a markup language without launching a new window.
- 14. A programming interface as recited in claim 1, wherein the first group of services generate a user interface containing a plurality of graphical objects.
- 15. A programming interface as recited in claim 1, wherein the second group of services arrange the graphical objects.
- 16. A software architecture comprising the programming interface as recited in claim 1.

- 17. An application program interface embodied on one or more computer readable media, comprising:
 - a first group of services related to generating graphical objects;
 - a second group of services related to formatting content; and
- a third group of services related to creating components of the graphical objects, wherein the first group of services, the second group of services and the third group of services share a common programming model.
- 18. An application program interface as recited in claim 17, wherein the first group of services, the second group of services and the third group of services utilize a common markup language.
- 19. An application program interface as recited in claim 17, wherein the third group of services includes services to generate geometric shapes.
- 20. An application program interface as recited in claim 17, wherein the second group of services includes arranging a plurality of data elements.
- 21. An application program interface as recited in claim 17, wherein the first group of services includes:
 - a service that determines an appearance of a graphical object; and a service that determines a behavior of the graphical object.

- 22. An application program interface as recited in claim 17, wherein the first group of services includes a service that defines window properties in a markup language without launching a new window.
- 23. A computer system including one or more microprocessors and one or more software programs, the one or more software programs utilizing a programming interface to request services from an operating system, the programming interface including separate commands to request services consisting of the following groups of services:
- a first group of services for generating graphical objects; and
 a second group of services for creating components of the graphical objects,
 wherein the first group of services and the second group of services share a
 common programming model.
- **24.** A computer system as recited in claim 23, wherein the first group of services includes:
 - a service for defining an appearance of the graphical objects; and a service for defining an arrangement of the graphical objects.
- 25. A computer system as recited in claim 23, wherein the second group of services includes services to generate a plurality of geometric shapes.

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26.	Α	method	comprising	:
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calling one or more first functions to facilitate generating graphical objects; and

calling one or more second functions to facilitate formatting content, wherein the first functions and the second functions share a common programming model.

- 27. A method as recited in claim 26, further including calling one or more third functions to facilitate creating components of the graphical objects.
- 28. A method as recited in claim 26, further including calling one or more third functions to facilitate generating geometric shapes contained in the graphical objects.
- 29. A method as recited in claim 26, wherein the first functions facilitate:

defining window properties in a markup language without launching a new window; and

generating a user interface containing a plurality of graphical objects.

30. A system comprising:

means for exposing a first set of functions that enable generating graphical objects; and

means for exposing a second set of functions that enable creating components of the graphical objects, wherein the components of the graphical objects include a plurality of geometric shapes, and wherein the first set of functions and the second set of functions share a common programming model.

- 31. A system as recited in claim 30, wherein the second set of functions further enable arrangement of the geometric shapes on a page to be rendered.
- 32. A system as recited in claim 30, further comprising means for exposing a third set of functions that enable formatting content for display.
- 33. A system as recited in claim 30, wherein the first set of functions and the second set of functions utilize a common markup language.
- 34. A system as recited in claim 30, wherein the first set of functions and the second set of functions share a common event system and a common property definition system.